

FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
100086.401C11APPLICATION NO.
10/006,982

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANTS

Orest W. Blaschuk and Barbara J. Gour

FILING DATE

December 4, 2001

GROUP ART UNIT

Not Yet Assigned

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
RT	AA	5,231,082	7/27/93	Schasteen	514	11	
	AB	5,352,667	10/04/94	Lider et al.	514	19	
	AC	5,510,628	04/23/96	Georger, Jr. et al.	257	32	
	AD	5,585,351	12/17/96	Ranscht	514	12	
	AE	5,591,432	01/07/97	Bronson et al.	424	130.1	
	AF	5,646,250	7/8/97	Suzuki	530	350	
	AG	5,665,590	09/09/97	Yang	435	6	
	AH	6,031,072	2/29/00	Blaschuk et al.	530	317	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
RT	AI	EP 406 428 B1	01/09/91	EPO		
	AJ	WO 91/04745	4/18/91	WIPO		
	AK	WO 92/08731	05/29/92	WIPO		
	AL	WO 94/11401	5/26/94	WIPO		
	AM	WO 96/40781	12/19/96	WIPO		
	AN	WO 97/07209	02/27/97	WIPO		
	AO	WO 98/02452	1/22/98	WIPO		
	AP	WO 98/45319	10/15/98	WIPO		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

RT	AQ	Alexander et al., "An N-Cadherin-Like Protein Contributes to Solute Barrier Maintenance in Cultured Endothelium," <i>Journal of Cellular Physiology</i> 156: 610-618, 1993.
	AR	Ali et al., "Conformationally Constrained Peptides and Semipeptides Derived from RGD as Potent Inhibitors of the Platelet Fibrinogen Receptor and Platelet Aggregation," <i>J. Med. Chem.</i> 37(6): 769-780, 1994.

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BA						

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			YES	NO
BB				

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

RT	BC	Beesley et al., "The post-synaptic density: putative involvement in synapse stabilization via cadherins and covalent modification by ubiquitination," <i>Biochemical Society Transactions</i> 23: 59-64, 1995.
	BD	Blakemore, "Remyelination of CNS axons by Schwann cells transplanted from the sciatic nerve," <i>Nature</i> 266: 68-69, 1977.
	BE	Blaschuk et al., "E-Cadherin,, estrogens and cancer: is there a connection?," <i>The Canadian Journal of Oncology</i> 4(4): 291-301, 1994.
	BF	Blaschuk et al., "Identification of a Conserved Region Common to Cadherins and Influenza Strain A Hemagglutinins," <i>J. Mol. Biol.</i> 211: 679-682, 1990.
	BG	Blaschuk et al., "Identification of a Cadherin Cell Adhesion Recognition Sequence," <i>Developmental Biology</i> 139: 227-229, 1990.
	BH	Blaschuk and Farookhi, "Estradiol Stimulates Cadherin Expression in Rat Granulosa Cells," <i>Developmental Biology</i> 136: 564-567, 1989.
	BI	Bottenstein and Sato, "Growth of a rat neuroblastoma cell line in serum-free supplemented medium," <i>Proc. Natl. Acad. Sci. USA</i> 76(1): 514-517, 1979.
	BJ	Brecknell et al., "Bridge grafts of Fibroblast Growth Factor-4-Secreting Schwannoma Cells Promote Functional Axonal Regeneration in the Nigrostriatal Pathway of the Adult Rat," <i>Neuroscience</i> 74(3): 775-784, 1996.
	BK	Brockes et al., "Studies on Cultured Rat Schwann Cells. I. Establishment of Purified Populations from Cultures of Peripheral Nerve," <i>Brain Research</i> 165: 105-118, 1979.
	BL	Brook et al., "Morphology and Migration of Cultured Schwann Cells Transplanted Into the Fimbria and Hippocampus in Adult Rats," <i>GLIA</i> 9: 292-304, 1993.
	BM	Byers et al., "Fibroblast Growth Factor Receptors Contain a Conserved HAV Region Common to Cadherins and Influenza Strain A Hemagglutinins: A Role in Protein-Protein Interactions?," <i>Developmental Biology</i> 152: 411-414, 1992.

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	CA						

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					YES	NO
	CB					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

RT	CC	Cardarelli et al., "The Collagen Receptor $\alpha 2 \beta 1$, from MG-63 and HT1080 Cells, Interacts with a Cyclic RGD Peptide," <i>The Journal of Biological Chemistry</i> 267(32): 23159-23164, 1992.
	CD	Carlstedt et al., "Nerve Fibre Regeneration Across the PNS-CNS Interface at the Root-Spinal Cord Junction," <i>Brain Research Bulletin</i> 22: 93-102, 1989.
	CE	Cepek et al., "Expression of a candidate cadherin in T lymphocytes," <i>Proc. Natl. Acad. Sci. USA</i> 93: 6567-6571, 1996.
	CF	Chuah et al., "Differentiation and survival of rat olfactory epithelial neurons in dissociated cell culture," <i>Developmental Brain Research</i> 60: 123-132, 1991.
	CG	Craig et al., "Concept and Progress in the Development of RGD-Containing Peptide Pharmaceuticals," <i>Biopolymers (Peptide Science)</i> 37: 157-175, 1995.
	CH	Doherty et al., "Neurite Outgrowth in Response to Transfected N-CAM and N-Cadherin Reveals Fundamental Differences in Neuronal Responsiveness to CAMS," <i>Neuron</i> 6: 247-258, 1991.
	CI	Doherty and Walsh, "CAM-FGF Receptor Interactions: A Model for Axonal Growth," <i>Molecular and Cellular Neuroscience</i> 8(Article No. 0049): 99-111, 1996.
	CJ	Doherty and Walsh, "Signal transduction events underlying neurite outgrowth stimulated by cell adhesion molecules," <i>Current Opinion in Neurobiology</i> 4: 49-55, 1994.
	CK	Duncan et al., "Transplantation of oligodendrocytes and Schwann cells into the spinal cord of the myelin-deficient rat," <i>Journal of Neurocytology</i> 17: 351-360, 1988.
	CL	Fok-Seang et al., "An analysis of astrocytic cell lines with different abilities to promote axon growth," <i>Brain Research</i> 689: 207-223, 1995.
	CM	Fok-Seang et al., "Migration of Oligodendrocyte Precursors on Astrocytes and Meningeal Cells," <i>Developmental Biology</i> 171: 1-15, 1995.

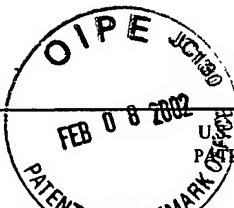
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DA						

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				YES	NO
DB					

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RT	DC	Franz, "Percutaneous Absorption. On The Relevance Of In Vitro Data," <i>The Journal of Investigative Dermatology</i> 64(3): 190-195, 1975.
	DD	Franz, "The Finite Dose Technique as a Valid <i>in Vitro</i> Model for the Study of Percutaneous Absorption in Man," <i>Curr. Probl. Dermatol.</i> 7: 58-68, 1978.
	DE	Ghirnikar and Eng, "Astrocyte-Schwann Cell Interactions in Culture," <i>GLIA</i> 11: 367-377, 1994.
	DF	Gumbiner et al., "The Role of the Cell Adhesion Molecule Uvomorulin in the Formation and Maintenance of the Epithelial Junctional Complex," <i>The Journal of Cell Biology</i> 107: 1575-1587, 1988.
	DG	Iruela-Arispe et al., "Expression of SPARC during Development of the Chicken Chorioallantoic Membrane: Evidence for Regulated Proteolysis In Vivo," <i>Molecular Biology of the Cell</i> 6: 327-343, 1995.
	DH	Laird et al., "Gap Junction Turnover, Intracellular Trafficking, and Phosphorylation of Connexin43 in Brefeldin A-treated Rat Mammary Tumor Cells," <i>The Journal of Cell Biology</i> 131(5): 1193-1203, 1995.
	DI	Lee et al., "Expression of the Homotypic Adhesion Molecule E-Cadherin by Immature Murine Thymocytes and Thymic Epithelial Cells," <i>Journal of Immunology</i> 152: 5653-5659, 1994.
	DJ	Letourneau et al., "Interactions of Schwann Cells with Neurites and with Other Schwann Cells Involve the Calcium-dependent Adhesion Molecule, N-cadherin," <i>Journal of Neurobiology</i> 22(7): 707-720, 1991.
	DK	Liuzzi and Lasek, "Astrocytes Block Axonal Regeneration in Mammals by Activating the Physiological Stop Pathway," <i>Science</i> 237: 642-645, 1987.
	DL	Lutz et al., "Secondary Structure of the HAV Peptide Which Regulates Cadherin-Cadherin Interaction," <i>Journal of Biomolecular Structure & Dynamics</i> 13(3): 447-455, 1995.

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EA						

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			YES NO
EB			

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RT	EC	Matsuzaki et al., "cDNAs of Cell Adhesion Molecules of Different Specificity Induce Changes in Cell Shape and Border Formation in Cultured S180 Cells," <i>The Journal of Cell Biology</i> 110: 1239-1252, 1990.
	ED	McCarthy and Vellis, "Preparation of Separate Astroglial and Oligodendroglial Cell Cultures from Rat Cerebral Tissue," <i>J. Cell Biology</i> 85: 890-902, 1980.
	EE	Mege et al., "Construction of epithelioid sheets by transfection of mouse sarcoma cells with cDNAs for chicken cell adhesion molecules," <i>Proc. Natl. Acad. Sci. USA</i> 85: 7274-7278, 1988.
	EF	Moran, "The Protein Delivery Service. Advances in technologies for delivering proteins and peptides in therapeutically useful forms," <i>Pharmaceutical Forum Issue</i> 6: 4-7. 1996.
	EG	Munro et al., "Characterization of Cadherins Expressed by Murine Thymocytes," <i>Cellular Immunology</i> 169(Article No. 0123): 309-312, 1996.
	EH	Munro and Blaschuk, <i>Cell Adhesion and Invasion in Cancer Metastasis</i> , R.G. Landes Company, Austin, TX, 1996, Chapter 3, "The Structure, Function, and Regulation of Cadherins," pp. 17-34.
	EI	Newton et al., "N-Cadherin Mediates Sertoli Cell-Spermatogenic Cell Adhesion," <i>Developmental Dynamics</i> 197: 1-13, 1993.
	EJ	Nose et al., "Localization of Specificity Determining Sites in Cadherin Cell Adhesion Molecules," <i>Cell</i> 61: 147-155, 1990.
	EK	Orr, "Angiogenesis Research Offers New Approaches to Treatment of Disease," <i>Genetic Engineering News</i> , pp. 15-16, 42, May 1, 1996.
	EL	Overduin et al., "Solution Structure of the Epithelial Cadherin Domain Responsible for Selective Cell Adhesion," <i>Science</i> 267: 386-389, 1995.

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FA						

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO
FB			

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

RT	FC	Redies and Takeichi, "Cadherins in the Developing Central Nervous System: An Adhesive Code for Segmental and Functional Subdivisions," <i>Developmental Biology</i> 180: 413-423, 1996.
	FD	Saffell et al., "Expression of a Dominant Negative FGF Receptor Inhibits Axonal Growth and FGF Receptor Phosphorylation Stimulated by CAMs," <i>Neuron</i> , pp. 231-242, February 1997.
	FE	Samanen et al., "Development of a Small RGD Peptide Fibrinogen Receptor Antagonist with Potent Antiaggregatory Activity in Vitro," <i>J. Med. Chem.</i> 34(10): 3114-3125, 1991.
	FF	Shapiro et al., "Structural basis of cell-cell adhesion by cadherins," <i>Nature</i> 374: 327-337, 1995.
	FG	Tsutsui et al., "Expression of Cadherin-Catenin Complexes in Human Leukemia Cell Lines," <i>J. Biochem.</i> 120: 1034-1039, 1996.
	FH	Wickelgren, "Breaking the Skin Barrier," <i>PS</i> 12: 86-88, 1996.
	FI	Willems et al., "Cadherin-dependent cell aggregation is affected by decapeptide derived from rat extracellular super-oxide dismutase," <i>FEBS Letters</i> 363: 289-292, 1995.
	FJ	Williams et al., "Activation of the FGF Receptor Underlies Neurite Outgrowth Stimulated by L1, N-CAM, and N-Cadherin," <i>Neuron</i> 13: 583-594, 1994.
	FK	Williams et al., "The Primary Structure of Hen Ovotransferrin," <i>Eur. J. Biochem.</i> 122: 297-303, 1982.
	FL	
	FM	
	FN	

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U.S. DEPARTMENT OF COMMERCE
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**SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**

(Use several sheets if necessary)

APPLICANTS
Orest W. Blaschuk and Barbara J. Gour

FILING DATE
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GROUP ART UNIT
1653

U.S. PATENT DOCUMENTS

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	AA						
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
RT	AK	WO 99/33875	7/8/99	WIPO		
	AL					
	AM					
	AN					
	AO					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

RT	AP	Blaschuk et al., "A novel cadherin antagonist (Exherin) blocks human ovarian tumor growth in nude mice," <i>Molecular Biology of the Cell</i> 10: 72A, November 1999.
	AQ	Starzinsky-Powitz, E.A., "The putative role of cell adhesion molecules in endometrisis: can we learn from tumour metastasis?," <i>Mol. Med. Today</i> 5(7): 304-309, 1999.
	AR	Williams, E.A., "A novel family of cyclic peptide antagonists suggests that N-cadherin specificity is determined by amino acids that flank the HAV motif," <i>J. Biol. Chem.</i> 275(6): 4007-4012, February 11, 2000.

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